

Precise dosing valve developed for demanding laboratory and analytical systems

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Flow control specialist Bürkert has announced the release of a new dosing valve with media separation that offers minimal internal volume, fast switching times and high repeatability to ensure stable processes and reproducible results. Maximum utilisation starts with minimal internal volumes, so the new valve can perform optimally at low volumes, meaning even small quantities can be processed with accuracy and reliably transferred to downstream processes.

Added to this, the new valve's fast switching capability enables precise dosing while optimised flow geometry delivers highly effective flushing. Whisper valves based on Lorentz actuator technology benefit from lower power consumption and noise output than alternative valve options, so combined with their ability to minimise any possible heat transfer into the fluids they manage, they are ideal for point-of-care and point-of-use applications.

Applications such as PCR analysis, use on pipetting arms in bioanalytics, oligo synthesis and the packaging of sensitive products present technological challenges that the Type 6732 solenoid valve was developed to address. It performs exceptionally well in both life-science applications and industrial processes as the actuator features numerous advantages like high dynamics and significantly improved repeatability compared to conventional actuators.

Accuracy meets versatile design

The new design is available in a wide range of materials, making this media-separated valve compatible with almost all liquids and gases. The Type 6732 2/2-way Whisper Valve combines dosing accuracy, and a low internal volume in a compact, versatile valve for optimal outcomes across a range of disciplines.

Both point-of-care and point-of-use applications can benefit from the innovative design. Ease of flushing at low volumes delivers confidence in high dosing accuracy and efficiency as well as excellent repeatability. The system is designed to offer maximum chemical resistance in a compact design measuring just 7 mm in width, making it ideally suited to space-critical applications. The valve also features a vacuum-compatible design for use in the most demanding processes.

Intelligent diagnosis

While the Lorentz actuator enables direct and precise valve movement with very fast switching times, Bürkert's groundbreaking ValveInsight technology analyses the current profile of the actuator to detect deviations at an early stage without the need for additional sensors. This allows for continuous monitoring of the switching behaviour and proactive control for even greater efficiency in both mobile and stationary applications.

You can find out more about the [Whisper Valve Type 6732](#) on the website.

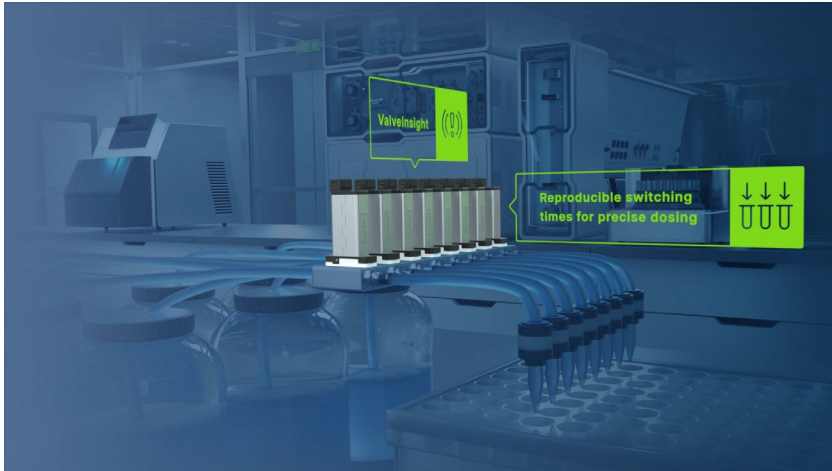
Images & Captions:

Image 1: Precision dosing starts with reproducible switching times.



Image 2: The Type 6732 Whisper Valve from Bürkert.

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About Bürkert

Bürkert Fluid Control Systems is one of the leading manufacturers of control and measuring systems for fluids and gases. The products have a wide variety of applications and are used within food & beverage, pharmaceutical and water industries as well as in medical engineering and space technology. The company employs over 3,700 people and has a comprehensive network of branches in 36 countries world-wide.

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